

2022-2023 Front-End Exam (1h 50min)

The exam must be recorded using OBS. Follow the instructions ([checklist](#)) at MuDLE.

We will create a web page that contains a list of subjects (see images for different screen sizes).

- The number of subjects could change in the future. CSS/JavaScript should not change no matter how many subjects there are.
- Use mobile 1st design.
- Do **not** use flexbox nor grid for the navigation nor for **any screen size**.
- Do **not** use absolute paths for files: e.g. `c://blablabla/example.css`
- Use relative paths for files: e.g. `img/example.png`
- Create an HTML with a title, a navigation, a list of subjects and some actions.
- Clicking on navigation items should move the screen to the related subject.
- Do **not** add JS event calls in the HTML: `<button onclick='myfunction()'>...`

Styling (6.5p)

Used colors:

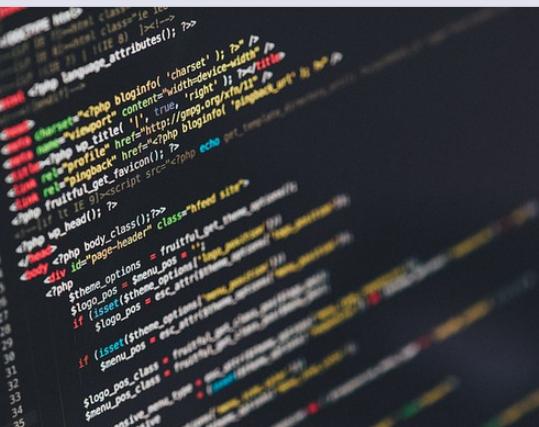
- mu-light: #00A3AD;
- mu-dark: #004851;
- mu-purple: #814795;
- mu-black: #2C2A29;
- mu-gray: #e1e2ed;
- mu-red: #D50032;

Very Small layout (<600px)

Top

2022-2023 Front-End Exam

- Web Engineering I
- Operating systems
- Project Management
- Software Engineering
- Human-Machine Interfaces
- ICT Laboratory



- TEACHER: Alain Perez
- CREDITS: 6.5 ECTS
- TYPE: Core

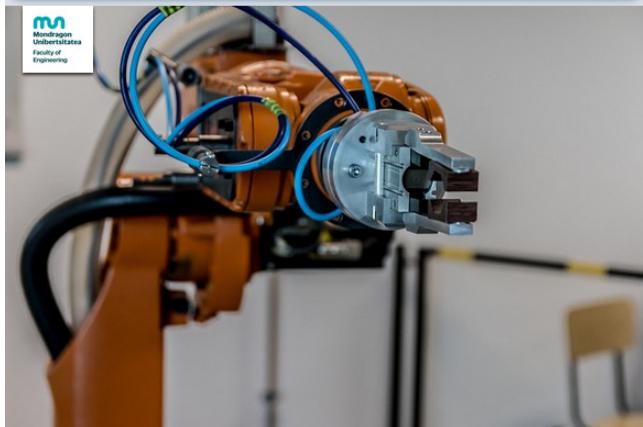


Bottom

- TEACHER: Iñigo Aldalur
- CREDITS: 4.5 ECTS
- TYPE: Core



- TEACHER: Xabier Valencia
- CREDITS: 4.5 ECTS
- TYPE: Core



- TEACHER: Eñaut Muxika
- TEACHER: Gaizka Bellido
- CREDITS: 4.5 ECTS
- TYPE: Core

[Hide \(3s\)](#)
[Cancel timeout](#)
[Show all](#)

- Do **not** use flexbox nor grid for this size **in any part**.
 - Most of the elements appear in new lines (see image above) so you don't need them.
- There is no space from the browser border to the content border.
- Navigation items styling is visible in the image above (it doesn't have to be exact values).
 - Spacing
 - Color
 - Rounded border
 - ...
- Subject:
 - There is a space between subjects but no space after and before.
 - MU logo should appear over the subject image.
 - Add a shadow to subject cards, change it when the mouse hovers subject cards (e.g. make it smaller).
 - Subject info:
 - Each item has a "title" and a "value".
 - The title styling is different from the value.
- Actions:
 - **mu-black** in the background.
 - Mantain the spacing as in the image.
 - Each action in a new line.

Small layout (>=600px <1024px)

Top

The screenshot shows a mobile application interface. At the top, there is a teal header with the text "2022-2023 Front-End Exam". Below the header, there is a purple card containing a logo and text: "• TEACHER: Alain Perez", "• CREDITS: 6.5 ECTS", and "• TYPE: Core". To the right of this card is a circular icon showing a laptop displaying a dashboard with various data points. Below the purple card is another purple card with a logo and text: "• TEACHER: Xabier Valencia", "• CREDITS: 4.5 ECTS", and "• TYPE: Core". To the right of this card is a circular icon showing a robotic arm. At the bottom of the screen, there is a horizontal navigation bar with three buttons: "Hide (3s)", "Cancel timeout", and "Show all".

Bottom

The screenshot shows a desktop application interface. At the top, there is a purple card containing a logo and text: "• TEACHER: Xabier Valencia", "• CREDITS: 4.5 ECTS", and "• TYPE: Core". To the right of this card is a circular icon showing a laptop displaying a dashboard with various data points. Below the purple card is another purple card with a logo and text: "• TEACHER: Eñaut Muxika", "• TEACHER: Gaizka Bellido", "• CREDITS: 4.5 ECTS", and "• TYPE: Core". To the right of this card is a circular icon showing a robotic arm. At the bottom of the screen, there is a horizontal navigation bar with three buttons: "Hide (3s)", "Cancel timeout", and "Show all".

- You can use any display for now on, with an exception: "actions"
 - Actions should never use "flex" nor "grid".
- Main layout
 - Navigation should show on the right of the subject cards.
 - Navigation should occupy the needed width, the subject cards should occupy the rest.
- Top part
 - The title should have some spacing on the right.
 - You should have some rounded border (e.g. `0 100em 100em 0` is set in the image)
- Subject list should have some spacing as in the image.
 - Subject cards now have some rounded border on the bottom.
- Actions
 - Action list now does not have any spacing.
 - Each action will occupy exactly 1/3 of the parent and there should be some spacing between them (see the image).
 - REMEMBER: do not use flex nor grid in this part! Take into consideration the box-model and the spaces between elements.

Medium layout (>=1024 <1280px)

Full view

2022-2023 Front-End Exam



- TEACHER: Alain Perez
- CREDITS: 6 ECTS
- TYPE: Core



- TEACHER: Ibai Roman
- CREDITS: 6 ECTS
- TYPE: Core

Web Engineering I

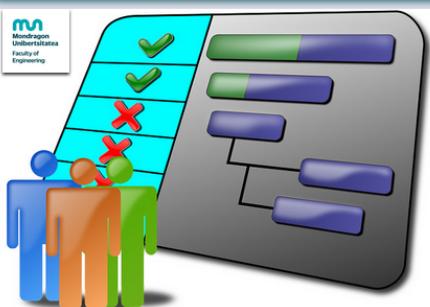
Operating systems

Project Management

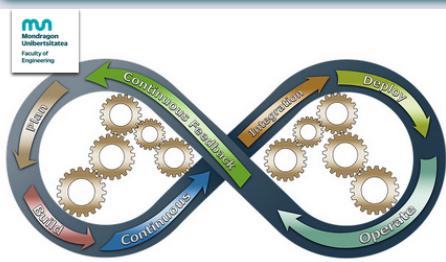
Software Engineering

Human-Machine Interfaces

ICT Laboratory



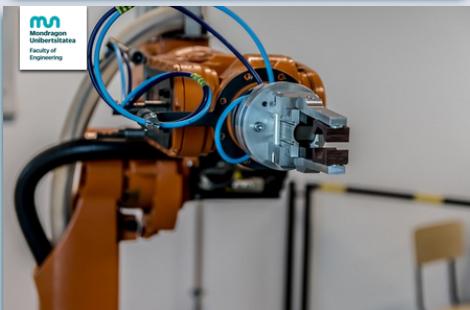
- TEACHER: Juan de la Torre
- CREDITS: 4.5 ECTS
- TYPE: Core



- TEACHER: Iñigo Aldalur
- CREDITS: 4.5 ECTS
- TYPE: Core



- TEACHER: Xabier Valencia
- CREDITS: 4.5 ECTS
- TYPE: Core



- TEACHER: Eñaut Muxika
- TEACHER: Gaizka Bellido
- CREDITS: 4.5 ECTS
- TYPE: Core

Hide (3s)

Cancel timeout

Show all

- Subject list now is shown in 2 columns.
 - Be carefull with the spacing.
 - If some subject info is larger that another, it should grow to occupy the same as the sibling card.

Large layout (>=1280)

Full view

2022-2023 Front-End Exam



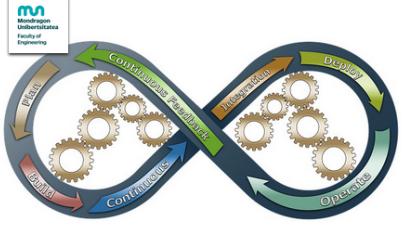
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- TYPE: Core



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- CREDITS: 6 ECTS
- TYPE: Core



- TEACHER: Juan de la Torre
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Web Engineering I Operating systems Project Management Software Engineering Human-Machine Interfaces ICT Laboratory

[Hide \(3s\)](#) [Cancel timeout](#) [Show all](#)

- Subject list now is shown in 3 columns.
- Navigation :
 - Is now shown below the subject list.
 - Each navigation item should occupy 1/6 of the parent and there should be some space between them.
 - All the content on navigation items should be vertically and horizontally centered.

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Javascript (2.5p)

Selecting Cards and navigation items (1p)

- When a card is clicked, it will be selected and also the navigation element related with it.
- If it was already selected, when the card is clicked, it will be unselected.
- Selected items will have a **mu-red** background.
- Clicking on the navigation items should not select the card. As said at the beginning of the document, it should only move the page to the related subject card.

Full view

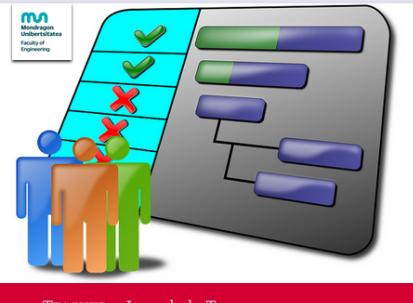
2022-2023 Front-End Exam



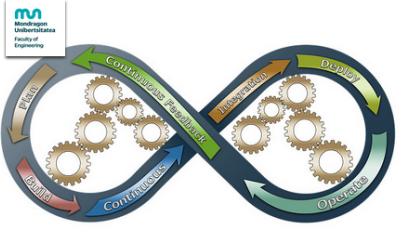
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Hide (3s) Cancel timeout Show all

Hiding cards (1p)

- When **hide** is clicked, you will have to wait 3s and then hide all selected cards. The related navigation element will change its background too.
- If **cancel timeout** or any other **subject card** is clicked, the hiding action should be cancelled.

Full view

2022-2023 Front-End Exam



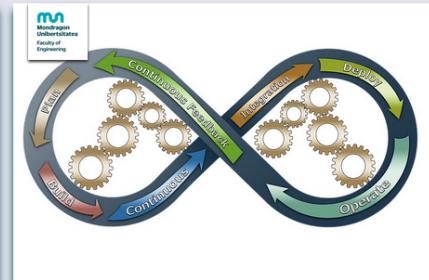
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[Hide \(3s\)](#) [Cancel timeout](#) [Show all](#)

Show all (0.5p)

- When **Show all** button is clicked, every hidden card should be visible and every "black" navigation item should return to **mu-dark**.